



# FACILITY COMPLIANCE AUDIT REPORT

## Division of Waste Management

### Solid Waste Section

**UNIT TYPE:**

Lined MSWLF	X	LCID		YW		Transfer		Compost		SLAS		COUNTY: Cherokee PERMIT NO.: 20-02 FILE TYPE: COMPLIANCE
Closed MSWLF		HHW	X	White goods		Incin	X	T&P		FIRM		
CDLF		Tire T&P / Collection	X	Tire Monofill		Industrial Landfill		DEMO		SDTF		

**Date of Audit:** June 3, 2009  
June 19, 2009

**Date of Last Audit:** November 25, 2008

**FACILITY NAME AND ADDRESS:**

Cherokee County Landfill  
10160 US 19/74/129  
Marble, NC 28905

**GPS COORDINATES:** N: 35.18103 E: -83.90807

**FACILITY CONTACT NAME AND PHONE NUMBER:**

Robert Allen, Director  
828/837-2621

**FACILITY CONTACT ADDRESS:**

Cherokee County Solid Waste Department  
c/o Cherokee County Courthouse  
75 Peachtree Street, Murphy, NC 28906

**AUDIT PARTICIPANTS:**

Robert Allen, Solid Waste Director, Cherokee County  
Jeff Clark, Landfill Manager  
Troy Harrison, Environmental Senior Specialist, Solid Waste Section NCDENR

**STATUS OF PERMIT:**

Original Permit to Construct issued July 15, 1997  
Permit to Construct (Phase 2) issued February 19, 2004  
Current Active-Permit to Operate issued April 1, 2005  
Permit Expiration Date: April 1, 2010  
**Date to Request Renewal of Permit: October 1, 2009**

**PURPOSE OF AUDIT:**

Comprehensive audit of MSW LF

**NOTICE OF VIOLATION(S):**

None

**STATUS OF PAST NOTED VIOLATIONS:**

Cherokee County has made great in correcting past violations, but must remember to identify problems areas before they become a compliance issue.

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**AREAS OF CONCERN AND COMMENTS:**

1. This facility is a MSW landfill. The service area is Cherokee County.
2. The weather was clear at the time of audit; however, there had been a recent pattern of daily heavy rain.
3. The skimmer that was installed in the sediment basin was removed for repair. **This needs to be reinstalled as soon as possible.**
4. The leachate pond was observed. The hours that the pumps are in operation were recorded on a weekly basis based on records. During the week of 4/26-5/2 the Phase 1 Pump was in operation for 5 hours for a total of 21,000 gal.; Main Pump No. 1 was on operation for 2 hours and Main Pump 2 was in operation for 104 hours. Main Pump 2 pumped 636,000 gal. to the leachate lagoon. Leachate is then pumped to the sewage system on a regular basis and does not collect in the lagoon for very long.
5. Most of the intermediate cap had been seeded and had a well established appropriate vegetative cover. Staff had recently graded a portion of the slope and was awaiting hydroseeding. The grading appeared to be very well done. Soil was being taken to the top of the landfill for intermediate cover. Due to the amount of rain that has fallen, staff was working very hard to get as much cover on the landfill before predicted rain that afternoon.
6. **Phase one of the landfill needs to be mowed.**
7. The entrance road is paved with gravel placed on top of a fabric to make moving the road easier when necessary. The road was in good condition.
8. I gave a copy of a memo dated May 29, 2009 that requires landfill owners to mark the edge of waste by January 1, 2010. The edge of the liner was already well marked.
9. There have been daily heavy rain storms in the area in the weeks before the audit. **There was an area of standing water on top of the landfill next to the access road. There was also a very small area with water on the edge of the landfill near the maintenance shed. This appeared to be runoff from the cap and is on the opposite side of the landfill from the working face. Cherokee County needs to take care to not allow standing water over waste or the liner.**
10. Tires were removed from the working face and placed to the side. These are to be placed in the tire trailer.
11. The working face measured approximately 70' x 50'.
12. No solid waste was observed being disposed in water.
13. Yard waste is to be taken to an area on the property that is next to a garden maintained by the Cherokee County Sheriff's Department. No one has used this service yet. Cherokee County must make sure that it is operated in accordance with 15A NCAC 13B .1402 which regulates compost facilities.
14. The Land Clearing Debris Treatment & Processing area was observed. Grinding has not occurred for over two years.
15. Staff was on site and operating the scales.
16. The Landfill is secured after hours by a gate and fence.
17. The facility does not accept asbestos.

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**Recycling Area**

18. The metal pile is located on gravel and not covered.
19. The tire collection trailer was on site but not full. No tires were observed outside of the trailer.
20. The battery collection area is located on a pallet. All batteries were observed upright.
21. The waste oil collection area is located within the recycling building on concrete. The used oil is removed by Holston Services, Inc.
22. The county recycles cardboard, newspaper, aluminum, and plastic. These are bailed and sold.
23. There is an area where doors, furniture or anything that can be reused are placed. This is a swap shop that is available to the general public.
24. The white goods area was observed. All items were stored in an upright position. Freon is removed by an outside contractor, marked with an "X" and then moved to the metal pile.

**Records Review**

25. Waste Screening records were reviewed. Staff screens approximately two loads per week, one large and one small. Waste screenings for the month of May is as follows:  
5/14 300 lbs and 3220 lbs  
5/20 420 lbs and 3120 lbs  
5/27 480 lbs and 4080 lbs  
No banned waste was noted on the form.

26.

Name	Certification	Expiration Date
Jeff Clark	MOLO	2/13/10
Robert Allen	MOLO	2/13/10
Wanda Payne	MOLO	2/13/10
Dick Godfrey	MOLO	2/13/10
James Phillips	LOS	4/2/12
Jason Roland	LOS	4/2/12

MOLO – Manager of Landfill Operations  
LOS – Landfill Operations Specialist

27. Surface and ground water monitoring testing was reviewed. Cherokee County is required to conduct the monitoring on a semi-annual basis. The most recent reports were not located during the audit. The ARO received copies of the cover letters for the 2008 samples.

2008 Groundwater, Surface Water and Leachate Sampling		
Sampling Dates	Date Report Submitted to Solid Waste Section	Sampling Sources
2/18/08 & 2/19/08	5/23/09	MW-1, MW-2, MW-3, MW-4, MW-6S, MW-6D, MW-7, MW-8, MW-9, P-18, Lined Leachate Lagoon, SW-2, SW-4
8/18/08 & 8/19/08	3/3/09	MW-1, MW-2, MW-3, MW-4, MW-6S, MW-6D, MW-7, MW-8, MW-9, P-18, Lined Leachate Lagoon, SW-2, SW-4

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28. **As part of a Compliance Order Settlement, Cherokee County is required to submit to the Regional Engineer quarterly supplemental drawings to include activities for the following quarter that provide guidance for development of landfill management and operational features such as drainage control and roadways. The most recent drawing was received on January 16, 2009. Cherokee County has not submitted drawings for the first two quarters of 2009. For purposes of this requirement, the drawings are due postmarked the last day of the quarter, ex.: March 31, June 30, September 30 and December 31. The drawing must be submitted immediately. Failure to submit the drawing could result in the breach of the Settlement Agreement and Special Order by Consent.**
29. Methane Migration survey data for 2008 and 2009 was reviewed. Methane monitoring is required by 15A NCAC 13B .1626 (4). The highest reading was 29% of the LEL on well P2 on 2/12/09. This is located between the landfill and Highway 64. 15A NCAC 13B .1626(4)(a)(ii) requires that operators of all MSWLF units ensure that the concentration of methane gas does not exceed the LEL. Methane concentrations are also measured at the mechanic shop located adjacent to the landfill. 15A NCAC 13B .1626(4)(a)(i) requires that operators of all MSWLF units ensure that the concentration of methane gas does not exceed 25% of the LEL. No concentrations were noted in 2008 or 2009. Cherokee County is required to implement a routine methane monitoring program. This is done quarterly as required by the Operation Plan. Methane monitoring was also done on 6/19/09 during the audit. Compliance with this requirement is noted

Please contact me if you have any questions or concerns regarding this audit report.



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Troy Harrison  
Environmental Senior Specialist  
***Regional Representative***

828-296-4701  
Phone: \_\_\_\_\_

Mailed on : <u>June 23, 2009</u> by		Hand delivery	<b>X</b>	US Mail		Certified No. <u>  </u>
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cc: Mark Poindexter, Field Operations Branch Supervisor  
Deb Aja, Western District Supervisor  
Donald Herndon, Compliance Officer  
David Badger, Cherokee County Manager